

<110> Kidd, Vincent J. Lahti, Jill M. Teitz, Tal

<120> A Tumor Suppressor Protein Involved in Death Signaling, and Diagnostics, Therapeutics, and Screening Based on This Protein

<130> 2427/1E988-US1

<140> 09/477,082

<141> 1999-12-30

<150> 60/114,308

<151> 1998-12-31

<160> 34

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 670

<212> DNA

<213> Human

<400> 1

	_					
		gcagaaggaa				60
agggccaagg	atgggaactc	agcctgagca	cgggttgatc	cggagcaggg	ctaagccaag	120
tacgaatgaa	ccagaccact	tcctcctttt	tttctgaacg	atctacccgc	atttcagcca	180
		ccggcgggag				240
ctgaggtttg	atcaaggcaa	agggaaactt	cctattccca	gaccctttgc	aagaaagaat	300
ggcatattac	ttqccqccga	caggggttat	tattactaaa	tggagtcagt	ataaatgctt	360
tccaataaag	catgtccagc	gctcgggctt	tagtttgcac	gtccatgaat	tgtctgccac	420
atccctcttc	tgaatggttg	gaattgggca	tctctgttcc	tttaaacagg	aaacatttct	480
		gttctgcttt				540
gtggtgaagt	tttctctttc	tctcggagac	cagattctgc	ctttacgctg	gagggaagtg	600
		tttatctttt				660
aaagcgcttt						670

<210> 2

<211> 753

<212> DNA

<213> Human

<400> 2

aattagaccg cgtattgaaa gtaaaagaaa cttcttcctg ggagcctttc ccacccctt

	aaagggtgga atttttgttt ctgcccttct tgagccgatg acctttttgt tggacccgtt gccctggggg gaggtgcaca accccaccc acgttttcga	gcgggtgagt cttgacttgc gaggacacct cctttgactt cctccaagct tggagagtcc ccgacggtta gccctttcc tttccctcc tgtggattcg	gcctgttgcc tctagaaaca ctggtgctgc tgctactttt tccctgccgc agaagacttt agtactttat cctctttcgc ctgccctctg	aaggtggcct gggctgtggg ctggcccagg tcactctgag ctcgaatgca atcaatccac tctgtcattc gtcctgaagg tttttgttgc acctgcaccc	gagactgcga cttcaacagg ggtggggaag tctcctgtgt cagtctccag gatacacgga tttttttct tgtcgaatca ggtttccttt ccaaaaaaca gtttgcaaaa	aaaccacaat caacttggat ggtttctctc ttcctctgct ctcccttctg ttttcatttg cgaatgccct tatgtcttca agttctctaa	120 180 240 300 360 420 480 540 600 660 720 753
18	cttgtctggt ttgcagtagc ccatttattt atctttatga gcctgaacta agagacycca /tcttccgaat tggaaaggga ctcccattgt ttttttgtg ctacagaaga caccctagag gggaggcttt taattctata <210> <211> <212>	cagcccattg gttcttttt ctttgatgaa tgacttagat tattggggaa cattccgcaa ggaaaagaga taatagactg acttcagaca gggactggga gtaccctgcc cagtagtgcc agagtgggta gggaagatgt gaaatgctaa	tctctcctgt caagccagca tatattctcc caactggaca aggaagcaag atgttggagg gatttgctga ccaggcaggg ggtgtgggtt tagtgcctgg ttggtggtcc aacaaaggcg	gctgacagca aatggtactt tgccttttaa gtgaagatct aacccatcaa aaagcaatct ttacctacct ctcaaatttc gaatggacag gaacccagca tgctaaaggc tgagagagaa ccagattaag	tcctaaacag caatgaccag ttcttcctta aaagatggac ggcctccctc ggatgccttg gtccttcctg aaacactaga tgcctacagg cctctgagct gtgccacaat tgtaaaactt accaacattc aaatttaggg	tacctagtag tctgaacata ttcagcagaa aagttcctga atgttattcc aaggagctgc aaggaggaga tgggtggaaa gattggggct tctaaagctt agcttctccc agtatcactt	60 120 180 240 300 360 420 480 540 600 720 780 840 879
	gcagtgagcg cattactggc tcacatggga tcatgctcta ttttgcaaga	gccgattcat caacgcaatt tttatgttga cttatttggc tcagatttca ggaaatctcc	aatgtgagtt gggtggcctt caagatttct gaagaagtga aaatgcaaac	agtcactctt tgggatccga aaagtgtctc gcagatcaga tggatgatga	tttcccgact aggcactcca gccccctgtg catttcccaa attgaggtct catggtgcct ttgggtggcc	tggcccatgc gctccatata ccacaaaggg tttaagtttc gggaacagca	60 120 180 240 300 360 420

	accacattca aatttagggg	gtatcacttg ccttatatat	caccctagag ggaggctttg aattctatag ttagaggtat	ggaagatgtc aaatgctaag	ccaccggagc accataaaat	cagattaaga aaaaatttat	480 540 600 659
	<212	> 5 > 448 > DNA > Human					
	ccagaaaaca gtcagaaact aaatctaatc acaacctgct tggacatcct actatgaaga	tgacatctga tggaatcgct tgggaagcaa taaaaaccag ggatattttc gaaaagagtc	catggcttct tccctagtag gggcaggtcc tagggctcaa atagagatgg tgtgcccaaa gtaccgcaat taatctgg	cctgctggct ttggttggag tcagattcca agaagagggt tcaacaagag	gtgagagacc aaattggaaa actttatttc catcctggga cctgctgaag	agcagaaact ttaaaaaaaa tcctcctctt gaaggaaagt ataatcaacg	60 120 180 240 300 360 420 448
•							
ł	gtcaactgtt ggaagtcctg	ctaagttttg gttcgggggt atgaattttc	atagctggca accctttgcc aaatgttagt atgcacatct	ttatctgagg taatttacta	agagaagcag tctggtacct	cagccttgaa	60 120 180 228
	<212	> 7 > 177 > DNA > Human					
	aatgacaatc	ttggggtaaa tcggactctc	ttttcccggg caagagaaca attacattac	ggatagtgaa	tcccaggtag	cacggaaaac	60 120 177
	<4000 aatattaata		gtgctcagga	ggcccaggta	ttgggacact	gactttacaa	60

		·				
aggaaacgac tttgtttaca ccagactttg ccaacaatca acaggaatgg cccccaaatg catagctata aggtaaagaa aaataaaagt aagcagtaat	cccgagttgg tctctagtgt gacaaagttt caattttgca aacacacttg ggagaaaatc ccaaaagggc cattcttata aatgtatgta aagctttgtt	ggtggtgcaa ttgacccaca accaaatgaa aaagcacggg gatgcaggtg cttcttatgc catggttcaa catttatcag taaatataaa ttgaattcag	tggaaagcaa gagtcagctc aagcaaacct agaaagtgcc ggcggggctc ctatttttt gaaaatggat tttcctgctt atatcaaatc ctaaatgcat	aggtagaaac gtcctcttac ctgggttggg cggggatact caaacttcac gtgagcgtgc ttaaatcaaa ttaaacatat tttttaaaaa ttactaaaag agcgcttctg gctgcatttt	tagggagttg tttttgtaat gtctgatcat agcattaggg cttccaaatt agggatttaa ttccctgtgg ttaattttt acataatgaa tggaatgtat	120 180 240 300 360 420 480 540 600 660 720 780 784
<210> <211> <212> <213>	> 771					
atagtgtggc cttcattttg aaaatctacc catggagaca acatctcagt attcaggatt gagcaaccct gctgactttc agggaacctg ttttgcctac ctatctactc	ttgtctctcg gtactgttcg agatcaagcc aactcatgga agggcatcat tcactggttt gtcaggggga atttagaaat tgctggggat gtacatccag tcagccctcc atattcagag	agtttcactt ccacgatgac ccacagtaac ctatggcact gaagtgcct taactaccag ggatttatca ggccactgtg tcactttgcc tcactgttac cctattagaa	ttcaggggct tgcacagtag atggactgct gatggacagg tcccttgctg aaaggtatac tcacctcaaa aataactgtg agagcctgag actaccttcc agtgctatgt	cctgctggtc ttgaccacga agcaaatcta tcatctgctg agcccccat gaaaacccaa ctgttgagac cgagatatat ttcctaccga agagcgatgt ccccctactc gatttagatc taaatgtcta	ctttgaagag tgacattttg tatcctctcc ctatgagctg agtgttttt tgattcagag cccggatgag aaccctgcag cctcggtaag catcacacta acattaacag	60 120 180 240 300 360 420 480 540 600 660 720 771
<210><211><211><212><213>	223					
tcgcaatagt gaactatgaa tactttcaca	tgtctctggg gtgtgaatag gtaagcaaca ctaagaaaaa	tttgcagagg	cgatgatatt gaaaaacatg	cgtgctttcc ctcaccatcc gggaaacaga tga	tgactgaagt	60 120 180 223
<210>	, тт					

<210> 11 <211> 5 <212> PRT

```
<213> Human
      <220>
      <223> Xaa at position four is any amino acid.
      <400> 11
Gln Ala Cys Xaa Gly
 1
      <210> 12
      <211> 8
      <212> PRT
      <213> Human
      <400> 12
Arg Asn Pro Ala Glu Gly Thr Trp
      <210> 13
      <211> 20
      <212> DNA
      <213> Human
      <400> 13
                                                                           20
ggtggagcgg gtgtgggtcg
      <210> 14
      <211> 23
      <212> DNA
      <213> Human
      <400> 14
                                                                           23
tattttgact tagattatat tct
      <210> 15
      <211> 22
      <212> DNA
      <213> Human
      <400> 15
                                                                           22
gcctacaggt gggtggaaac tc
      <210> 16
      <211> 20
      <212> DNA
      <213> Human
      <400> 16
```

	cccaaccaca aagggtcatg		20
	<210> 17 <211> 21 <212> DNA <213> Human		
	<400> 17 gatgacatgg tgcctgggaa	С	21
	<210> 18 <211> 21 <212> DNA <213> Human		
	<400> 18 ttctcctcct cttacaacct	g	21
	<210> 19 <211> 22 <212> DNA <213> Human		
	<400> 19 ttcagcaaag taccgcaatt	tc	22
/	<210> 20 <211> 21 <212> DNA <213> Human		
	<400> 20 tttgccttat ctgaggagag	a	21
	<210> 21 <211> 23 <212> DNA <213> Human		
	<400> 21 tcaaatgtta gttaatttac	tat	23
	<210> 22 <211> 23 <212> DNA <213> Human		
	<400> 22		

tcccgggttt tcccgagggg	gag	23
<210> 23 <211> 21 <212> DNA <213> Human		
<400> 23 tcacaggtag cacggaaaac	С	21
<210> 24 <211> 22 <212> DNA <213> Human		
<400> 24 gggttttgta atccagactt	tg	22
<210> 25 <211> 20 <212> DNA <213> Human		
<400> 25 gatgcaggtg ggcggggctc		20
<210> 26 <211> 23 <212> DNA <213> Human		
<pre><400> 26 agtttcactt ttcaggggct</pre>	ttg	23
<210> 27 <211> 24 <212> DNA <213> Human		
<400> 27 tgtcctcggt aagttttgcc	tact	24
<210> 28 <211> 22 <212> DNA <213> Human		
<400> 28		

	gtgaatagtt tgcagaggcg	at	22
	<210> 29		
	<211> 21		
	<212> DNA		
	<213> Human		
	<400> 29		
	taggggattc ggagattgcg	a	21
	<210> 30	•	
	<211> 22		
	<212> DNA		
	<213> Human		
	<400> 30		
	cgtatatcta cattcgaaac	ga	22
	<210> 31		
	<211> 21		
	<212> DNA		
	<213> Human		
	<400> 31		
	taggggattt ggagattgtg	a	21
í	taggggattt ggagattgtg	·	
)	<210> 32		
L	<211> 25		
Y	<212> DNA		
'	<213> Human		
	<400> 32		∩ [
	ccatatatat ctacattcaa	aacaa	25
	<210> 33		
	<211> 21		
	<212> DNA		
	<213> Human		
	<400> 33		
	taggggactc ggagactgcg	a	21
	J J		
	<210> 34		
	<211> 21		
	<212> DNA		
	<213> Human		
	<400> 34		

cgtgtatctg cattcgaggc g